

Datasheet for ABIN7320778
Renin Protein (REN) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	Renin (REN)
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Renin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse REN1/Renin-1 Protein (His Tag)
Sequence:	Leu22-Arg402
Characteristics:	Recombinant Mouse Renin is produced by our Mammalian expression system and the target gene encoding Leu22-Arg402 is expressed with a 10His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Renin (REN)
Alternative Name:	REN1/Renin-1 (REN Products)
Background:	Background: Mouse Renin, also known as Renin-1, is a member of the peptidase A1 family. Renin is synthesized by the juxtaglomerular cells of the kidney in response to decreased blood pressure and sodium concentration. It cleaves angiotensinogen to generate angiotensin I,

Target Details

which can be further converted by angiotensin converting enzyme (ACE) to angiotensin II. Angiotensin II is the active molecule of the reninangiotensin system that acts by binding to angiotensin receptors type 1 and 2 (AT1 and AT2), and has direct pathophysiological effects on the heart and peripheral vasculature. After secretion, inactive prorenin can be proteolytically activated by trypsin, cathepsin B, or other proteinases.

Synonym: Renin-1, Angiotensinogenase, Kidney renin, Ren1, Ren, Ren-1, Angiotensin-forming enzyme, Ren-A, Ren1c, Ren1d, Rn-1, Rnr

Molecular Weight: 43.5 kDa

UniProt: [P06281](#)

Pathways: [ACE Inhibitor Pathway](#), [Peptide Hormone Metabolism](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Feeding Behaviour](#)

Application Details

Restrictions: For Research Use only

Handling

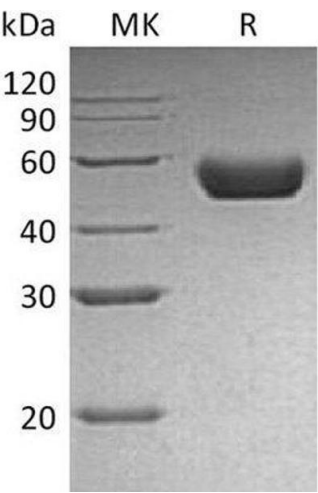
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.